

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

ENTERED

## SEQUENCE LISTING

1

2

## 3 (1) General Information:

4

5 (i) APPLICANT: Soppet, Daniel R  
6 Yi, Li  
7 Rosen, Craig A  
8 Ruben, Steven

9  
10 (ii) TITLE OF INVENTION: G-Protein Parathyroid Hormone receptor  
11 HLTDG74

12

13 (iii) NUMBER OF SEQUENCES: 28

14

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
17 Stewart & Olstein  
18 (B) STREET: 6 Becker Farm Road  
19 (C) CITY: Roseland  
20 (D) STATE: NJ  
21 (E) COUNTRY: USA  
22 (F) ZIP: 07068-1739

23

24 (v) COMPUTER READABLE FORM:

25 (A) MEDIUM TYPE: 3.5 INCH DISKETTE  
26 (B) COMPUTER: IBM PS/2  
27 (C) OPERATING SYSTEM: MS-DOS  
28 (D) SOFTWARE: WORD PERFECT 5.1

29

30 (vi) CURRENT APPLICATION DATA:

31 (A) APPLICATION NUMBER: 08/468,011  
32 (B) FILING DATE: 06-JUN-1995  
33 (C) CLASSIFICATION:

34

35 (viii) ATTORNEY/AGENT INFORMATION:

36 (A) NAME: MULLINS, J.G.  
37 (B) REGISTRATION NUMBER: 33,073  
38 (C) REFERENCE/DOCKET NUMBER: 325800-458 (PF201)

39

40 (ix) TELECOMMUNICATION INFORMATION:

41 (A) TELEPHONE: 201-994-1700  
42 (B) TELEFAX: 201-994-1744

43

44 (2) INFORMATION FOR SEQ ID NO:1:

45

46

INPUT SET: S20361.raw

47 (i) SEQUENCE CHARACTERISTICS:  
 48 (A) LENGTH: 2003 base pairs  
 49 (B) TYPE: nucleic acid  
 50 (C) STRANDEDNESS: single  
 51 (D) TOPOLOGY: linear

52 (ii) MOLECULE TYPE: cDNA

53 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

|               |            |            |            |            |            |     |
|---------------|------------|------------|------------|------------|------------|-----|
| 57 GTTTGCTCTG | GGCAGCCAAG | TTGGCATATT | CGAAGCTTTT | TCCGGGCTCT | GGAGGAGGGT | 60  |
| 58 CCCTGCTTCT | TCCTACAGCC | GTTCCGGGC  | ATG        | GCC        | TGG        | 113 |
| 60            | Met        | Ala        | Trp        | Leu        | Gly        | Ala |
| 61            | 1          | 5          |            |            |            |     |
| 63 CAC        | GTC        | TGG        | GGT        | TGG        | CTA        | 161 |
| 64 His        | Val        | Trp        | Gly        | Trp        | Leu        |     |
| 65 10         | 15         | 20         |            |            |            |     |
| 67 CAG        | CTG        | GAT        | TCT        | GAT        | GGC        | 209 |
| 68 Gln        | Leu        | Asp        | Ser        | Asp        | Gly        |     |
| 69 25         | 30         | 35         | 40         |            |            |     |
| 71 GTG        | CTG        | AAA        | GCG        | AAA        | GTA        | 257 |
| 72 Val        | Leu        | Lys        | Ala        | Lys        | Val        |     |
| 73 45         | 50         | 55         |            |            |            |     |
| 75 CAG        | GAG        | GGA        | GAA        | GGT        | AAT        | 305 |
| 76 Gln        | Glu        | Gly        | Gly        | Gly        | Thr        |     |
| 77 60         | 65         | 70         |            |            |            |     |
| 79 TGG        | CCC        | AGA        | GGA        | ACA        | GTG        | 353 |
| 80 Trp        | Pro        | Arg        | Gly        | Thr        | Val        |     |
| 81 75         | 80         | 85         |            |            |            |     |
| 83 TAT        | ATT        | TAT        | GAC        | TTC        | AAC        | 401 |
| 84 Tyr        | Ile        | Tyr        | Asp        | Phe        | Asn        |     |
| 85 90         | 95         | 100        |            |            |            |     |
| 87 CCC        | AAT        | GGA        | ACA        | TGG        | GAT        | 449 |
| 88 Pro        | Asn        | Gly        | Thr        | Trp        | Asp        |     |
| 89 105        | 110        | 115        | 120        |            |            |     |
| 91 AAT        | TAT        | TCA        | GAC        | TGC        | CTT        | 497 |
| 92 Asn        | Tyr        | Ser        | Asp        | Cys        | Leu        |     |
| 93 125        | 130        | 135        |            |            |            |     |
| 95 AAG        | CAA        | GAA        | TTC        | TGT        | GAA        | 545 |
| 96 Lys        | Gln        | Glu        | Phe        | Cys        | Glu        |     |
| 97 140        | 145        | 150        |            |            |            |     |
| 99 TCC        | ATC        | TCT        | TTT        | GGT        | TCC        | 593 |
|               |            |            |            |            |            |     |
|               |            |            |            |            |            |     |

RAW SEQUENCE LISTING  
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|     |   |     |      |     |
|-----|---|-----|------|-----|
| 100 | Ser Ile Ser Phe Gly Ser Leu Ala Val Ala Ile Leu Ile Ile Gly Tyr |     |      |     |
| 101 | 155   | 160 | 165  |     |
| 102 |   |     |      |     |
| 103 | TTC AGA CGA TTG CAT TGC ACT AGG AAC TAT ATC CAC ATG CAC TTA TTT |     | 641  |     |
| 104 | Phe Arg Arg Leu His Cys Thr Arg Asn Tyr Ile His Met His Leu Phe |     |      |     |
| 105 | 170   | 175 | 180  |     |
| 106 |   |     |      |     |
| 107 | GTC TCT TTC ATG CTG AGA GCT ACA AGC ATC TTT GTC AAA GAC AGA GTA |     | 689  |     |
| 108 | Val Ser Phe Met Leu Arg Ala Thr Ser Ile Phe Val Lys Asp Arg Val |     |      |     |
| 109 | 185   | 190 | 195  | 200 |
| 110 |   |     |      |     |
| 111 | GTC CAT GCT CAC ATA GGA GTA AAG GAG CTG GAG TCC CTA ATA ATG CAG |     | 737  |     |
| 112 | Val His Ala His Ile Gly Val Lys Glu Leu Glu Ser Leu Ile Met Gln |     |      |     |
| 113 | 205   | 210 | 215  |     |
| 114 |   |     |      |     |
| 115 | GAT GAC CCA CAA AAT TCC ATT GAG GCA ACT TCT GTG GAC AAA TCA CAA |     | 785  |     |
| 116 | Asp Asp Pro Gln Asn Ser Ile Glu Ala Thr Ser Val Asp Lys Ser Gln |     |      |     |
| 117 | 220   | 225 | 230  |     |
| 118 |   |     |      |     |
| 119 | TAT ATC GGG TGC AAG ATT GCT GTT GTG ATG TTT ATT TAC TTC CTG GCT |     | 833  |     |
| 120 | Tyr Ile Gly Cys Lys Ile Ala Val Val Met Phe Ile Tyr Phe Leu Ala |     |      |     |
| 121 | 235   | 240 | 245  |     |
| 122 |   |     |      |     |
| 123 | ACA AAT TAT TAT TGG ATC CTG GTG GAA GGT CTC TAC CTG CAT AAT CTC |     | 881  |     |
| 124 | Thr Asn Tyr Tyr Trp Ile Leu Val Glu Gly Leu Tyr Leu His Asn Leu |     |      |     |
| 125 | 250   | 255 | 260  |     |
| 126 |   |     |      |     |
| 127 | ATC TTT GTG GCT TTC TTT TCG GAC ACC AAA TAC CTG TGG GGC TTC ATC |     | 929  |     |
| 128 | Ile Phe Val Ala Phe Phe Ser Asp Thr Lys Tyr Leu Trp Gly Phe Ile |     |      |     |
| 129 | 265   | 270 | 275  | 280 |
| 130 |   |     |      |     |
| 131 | TTG ATA GGC TGG GGG TTT CCA GCA GCA TTT GTT GCA GCA TGG GCT GTG |     | 977  |     |
| 132 | Leu Ile Gly Trp Gly Phe Pro Ala Ala Phe Val Ala Ala Trp Ala Val |     |      |     |
| 133 | 285   | 290 | 295  |     |
| 134 |   |     |      |     |
| 135 | GCA CGA GCA ACT CTG GCT GAT GCG AGG TGC TGG GAA CTT AGT GCT GGA |     | 1025 |     |
| 136 | Ala Arg Ala Thr Leu Ala Asp Ala Arg Cys Trp Glu Leu Ser Ala Gly |     |      |     |
| 137 | 300   | 305 | 310  |     |
| 138 |   |     |      |     |
| 139 | GAC ATC AAG TGG ATT TAT CAA GCA CCG ATC TTA GCA GCT ATT GGG CTG |     | 1073 |     |
| 140 | Asp Ile Lys Trp Ile Tyr Gln Ala Pro Ile Leu Ala Ala Ile Gly Leu |     |      |     |
| 141 | 315   | 320 | 325  |     |
| 142 |   |     |      |     |
| 143 | AAT TTT ATT CTG TTT CTG AAT ACG GTT AGA GTT CTA GCT ACC AAA ATC |     | 1121 |     |
| 144 | Asn Phe Ile Leu Phe Leu Asn Thr Val Arg Val Leu Ala Thr Lys Ile |     |      |     |
| 145 | 330   | 335 | 340  |     |
| 146 |   |     |      |     |
| 147 | TGG GAG ACC AAT GCA GTT GGG CAT GAC ACA AGG AAG CAA TAC AGG AAA |     | 1169 |     |
| 148 | Trp Glu Thr Asn Ala Val Gly His Asp Thr Arg Lys Gln Tyr Arg Lys |     |      |     |
| 149 | 345   | 350 | 355  | 360 |
| 150 |   |     |      |     |
| 151 | CTG GCC AAA TCG ACA CTG GTG CTG GTC CTA GTC TTT GGA GTG CAT TAC |     | 1217 |     |
| 152 | Leu Ala Lys Ser Thr Leu Val Leu Val Leu Val Phe Gly Val His Tyr |     |      |     |

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|     |   |     |     |      |
|-----|---|-----|-----|------|
| 153 | 365   | 370 | 375 |      |
| 154 |   |     |     |      |
| 155 | ATC GTG TTC GTG TGC CTG CCT CAC TCC TTC ACT GGG CTC GGG TGG GAG   |     |     | 1265 |
| 156 | Ile Val Phe Val Cys Leu Pro His Ser Phe Thr Gly Leu Gly Trp Glu   |     |     |      |
| 157 | 380   | 385 | 390 |      |
| 158 |   |     |     |      |
| 159 | ATC CGC ATG CAC TGT GAG CTC TTC AAC TCC TTT CAG GGT TTC TTT       |     |     | 1313 |
| 160 | Ile Arg Met His Cys Glu Leu Phe Phe Asn Ser Phe Gln Gly Phe Phe   |     |     |      |
| 161 | 395   | 400 | 405 |      |
| 162 |   |     |     |      |
| 163 | GTG TCT ATC ATC TAC TGC TAC TGC AAT GGA GAG GTT CAG GCA GAG GTG   |     |     | 1361 |
| 164 | Val Ser Ile Ile Tyr Cys Tyr Cys Asn Gly Glu Val Gln Ala Glu Val   |     |     |      |
| 165 | 410   | 415 | 420 |      |
| 166 |   |     |     |      |
| 167 | AAG AAG ATG TGG AGT CGG TGG AAT CTC TCC GTG GAC TGG AAA AGG ACA   |     |     | 1409 |
| 168 | Lys Lys Met Trp Ser Arg Trp Asn Leu Ser Val Asp Trp Lys Arg Thr   |     |     |      |
| 169 | 425   | 430 | 435 | 440  |
| 170 |   |     |     |      |
| 171 | CCG CCA TGT GGC AGC CGC AGA TGC GGC TCA GTG CTC ACC ACC GTG ACG   |     |     | 1457 |
| 172 | Pro Pro Cys Gly Ser Arg Arg Cys Gly Ser Val Leu Thr Thr Val Thr   |     |     |      |
| 173 | 445   | 450 | 455 |      |
| 174 |   |     |     |      |
| 175 | CAC AGC ACC AGC AGC CAG TCA CAG GTG GCG GCA GCA CAC GCA TGG TGC   |     |     | 1505 |
| 176 | His Ser Thr Ser Ser Gln Ser Gln Val Ala Ala Ala His Ala Trp Cys   |     |     |      |
| 177 | 460   | 465 | 470 |      |
| 178 |   |     |     |      |
| 179 | TTA TCT CTG GCA AAG CTG CCA AGA TCG CCA GCA GAC AGC CTG ACA GCC   |     |     | 1553 |
| 180 | Leu Ser Leu Ala Lys Leu Pro Arg Ser Pro Ala Asp Ser Leu Thr Ala   |     |     |      |
| 181 | 475   | 480 | 485 |      |
| 182 |   |     |     |      |
| 183 | ACA TCA CTT TAC CTG GCT ATG TCT GGA GTA ACT CAG AGC AGG ACT GCC   |     |     | 1601 |
| 184 | Thr Ser Leu Tyr Leu Ala Met Ser Gly Val Thr Gln Ser Arg Thr Ala   |     |     |      |
| 185 | 490   | 495 | 500 |      |
| 186 |   |     |     |      |
| 187 | TCA CAC ACT CTC TCC ACG AGG AGC AAC AAG GAA GAT AGT GGG AGG CAG   |     |     | 1649 |
| 188 | Ser His Thr Leu Ser Thr Arg Ser Asn Lys Glu Asp Ser Gly Arg Gln   |     |     |      |
| 189 | 505   | 510 | 515 | 520  |
| 190 |   |     |     |      |
| 191 | AGA GAT GAT ATT CTA ATG GAG AAG CCT TCC AGG CCT ATG GAA TCT AAC   |     |     | 1697 |
| 192 | Arg Asp Asp Ile Leu Met Glu Lys Pro Ser Arg Pro Met Glu Ser Asn   |     |     |      |
| 193 | 525   | 530 | 535 |      |
| 194 |   |     |     |      |
| 195 | CCA GAC ACT GAA GGA TGACAAGGAG AAACTGAGGA TGTTCTCTGA ATGGACATGT   |     |     | 1752 |
| 196 | Pro Asp Thr Glu Gly   |     |     |      |
| 197 | 540   |     |     |      |
| 198 |   |     |     |      |
| 199 | GTGGCTGACT TTCATGGGC GGTCCAATGG CTGGTTGTGT GAGAGGGCTT GGCTGATACT  |     |     | 1812 |
| 200 |   |     |     |      |
| 201 | CCTATGCTTG AGCAAAAGG CTGAAAATTC AGTTAAGGTG TTACTTAATA ATAGTTTTA   |     |     | 1872 |
| 202 |   |     |     |      |
| 203 | GGCTCCATGA ATTGGCTCCT GTAAATACTA ACGACATGAA AATGCAAGTG TCAATGGAGT |     |     | 1932 |
| 204 |   |     |     |      |
| 205 | AGTTTATTAC CTTCTATTGG CATCAAGTTT TCCTCTAAAT TAATGTATGG TATTTGCTCT |     |     | 1992 |

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/468,011ADATE: 09/16/97  
TIME: 10:09:13

INPUT SET: S20361.raw

206  
207 GTGATTGTTC A 2003  
208  
209  
210 (2) INFORMATION FOR SEQ ID NO:2:  
211  
212 (i) SEQUENCE CHARACTERISTICS:  
213 (A) LENGTH: 541 amino acids  
214 (B) TYPE: amino acid  
215 (D) TOPOLOGY: linear  
216  
217 (ii) MOLECULE TYPE: protein  
218  
219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
220  
221 Met Ala Trp Leu Gly Ala Ser Leu His Val Trp Gly Trp Leu Met Leu  
222 5 10 15  
223  
224 Gly Ser Cys Leu Leu Ala Arg Ala Gln Leu Asp Ser Asp Gly Thr Ile  
225 20 25 30  
226  
227 Thr Ile Glu Glu Gln Ile Val Leu Val Leu Lys Ala Lys Val Gln Cys  
228 35 40 45  
229  
230 Glu Leu Asn Ile Thr Ala Gln Leu Gln Glu Gly Glu Gly Asn Cys Phe  
231 50 55 60  
232  
233 Pro Glu Trp Asp Gly Leu Ile Cys Trp Pro Arg Gly Thr Val Gly Lys  
234 65 70 75 80  
235  
236 Ile Ser Ala Val Pro Cys Pro Pro Tyr Ile Tyr Asp Phe Asn His Lys  
237 85 90 95  
238  
239 Gly Val Ala Phe Arg His Cys Asn Pro Asn Gly Thr Trp Asp Phe Met  
240 100 105 110  
241  
242 His Ser Leu Asn Lys Thr Trp Ala Asn Tyr Ser Asp Cys Leu Arg Phe  
243 115 120 125  
244  
245 Leu Gln Pro Asp Ile Ser Ile Gly Lys Gln Glu Phe Cys Glu Arg Leu  
246 130 135 140  
247  
248 Tyr Val Met Tyr Thr Val Gly Tyr Ser Ile Ser Phe Gly Ser Leu Ala  
249 145 150 155 160  
250  
251 Val Ala Ile Leu Ile Ile Gly Tyr Phe Arg Arg Leu His Cys Thr Arg  
252 165 170 175  
253  
254 Asn Tyr Ile His Met His Leu Phe Val Ser Phe Met Leu Arg Ala Thr  
255 180 185 190  
256  
257 Ser Ile Phe Val Lys Asp Arg Val Val His Ala His Ile Gly Val Lys  
258 195 200 205

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/468,011A**

DATE: 09/16/97  
TIME: 10:09:17

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Line

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Original Text